

*Sub A6
cont.*

10. Emulsion according to any one of claims 1-5 with a viscosity of 10-300 mPa.s.

A6
11. Use of an emulsion according to any one of claims 1-5 in a polymerization or polymer modification reaction, preferably a reaction involving the polymerization of at least vinyl chloride.

12. Polyvinyl chloride obtainable by a process involving the reaction of at least vinyl chloride monomer and a peroxide that was used in the form of an emulsion according to any one of claims 1-5.

REMARKS

Formal examination of the new Claims herein is requested in due course.

Respectfully submitted,

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MARKED COPY OF SPECIFICATION/CLAIMS SHOWING CHANGES

IN THE SPECIFICATION (AT PAGE 1):

-- AQUEOUS PEROXIDE EMULSIONS

This application is a national phase filing of PCT/EP00/00003, filed January 6, 2000, which application claims priority from European Patent Application No. 99200066.1, filed January 12, 1999.

This invention relates to aqueous emulsions of peroxides, optionally containing an anti-freeze and/or further additives, which contain a specific emulsifier system comprising a copolymer of an α,β -unsaturated dicarboxylic acid and a C₈₋₂₄ α -olefin the acid groups of which are esterified with an ethoxylated alcohol having a degree of ethoxylation of 1-45.---

IN THE CLAIMS:

3. Emulsion according to claim 1 [or 2] wherein the peroxide is selected from the group consisting of peroxyesters, peroxydicarbonates, peroxycarbonates, diacyl peroxides, peroxides, and combinations thereof, and in which said peroxide is present in an amount of 30-70% by weight, based on the weight of the emulsion.

6. Emulsion according to any one of [the preceding] claims 1-5 wherein the copolymer is present in an amount of 0.05 to 20% by weight and the ethoxylated fatty alcohol is present in

an amount of 0.02-15% by weight, while the total weight of both compounds is at least 0.5% by weight, all based on the weight of the peroxide in said emulsion.

8. Emulsion according to any one of [the preceding] claims 1-5 wherein the HLB value of the ethoxylated fatty alcohol is greater than 16.5, preferably greater than 17.0.

9. Emulsion according to any one of [the preceding] claims 1-5 wherein the droplet size of the emulsion, when measured using a Malvern Easy Sizer, is characterized by a d₅₀ of 0.1-2.0 μm and a d₉₉ of 0.5-9.0 μm .

10. Emulsion according to any one of [the preceding] claims 1-5 with a viscosity of 10-300 mPa.s.

11. Use of an emulsion according to any one of [the preceding] claims 1-5 in a polymerization or polymer modification reaction, preferably a reaction involving the polymerization of at least vinyl chloride.

12. Polyvinyl chloride obtainable by a process involving the reaction of at least vinyl chloride monomer and a peroxide that was used in the form of an emulsion according to any one of claims [1-10] 1-5.